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**Title:** SuiteGoo

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**Intended for:** DisrupTech workshop - innovator engagement

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# SuiteGoo

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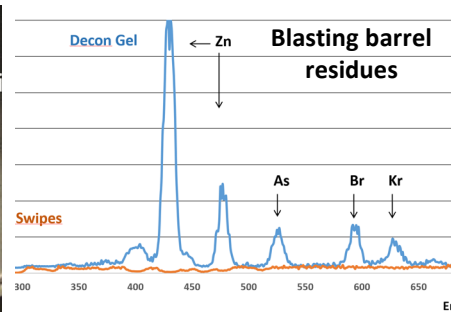
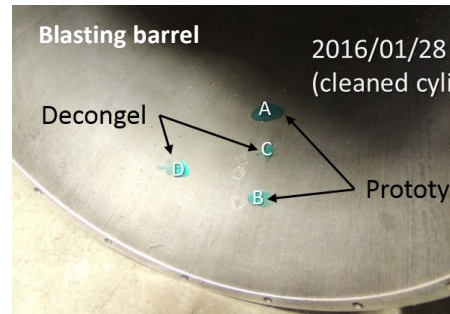
## PROBLEM

How to detect  
“*undetectable*”  
material traces ?

... **YOU KNOW**  
**THEY'RE THERE!**

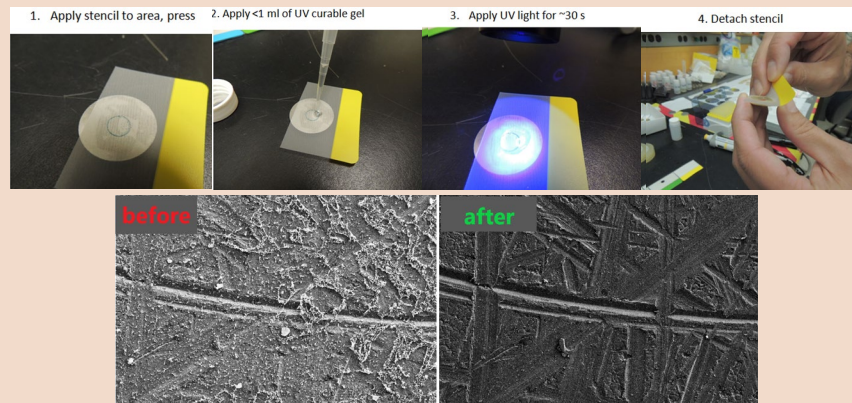
## APPLICATION

- When you need to **improve detection limits**
- Anywhere where cotton swiping **is used**
- Anywhere where cotton swiping **fails**
- Law enforcement – DNA from fingerprints
- Health care – presence of viruses and bacteria
- Emergency response – explosives trace
- Environmental Mng – pollutant traces



## SOLUTION

- 1) Apply liquid Goo onto a substrate
- 2) Cure with pocket UV lamp (~15s)
- 3) Peel off polymer film
- 4) Analyze particles collected on the film



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## BENEFITS

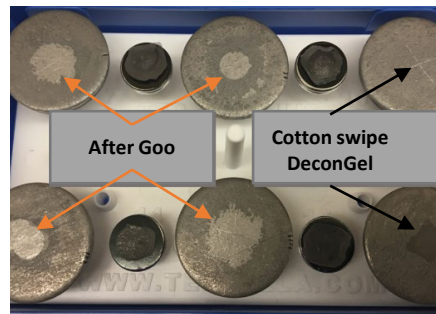
- SuiteGoo collects **more analyte** than cotton
- Polymer matrix **retains** the analyte in inert state
- Polymer **can be doped** to enable different, faster or more sensitive analyses (nanoparticles, chelants, detergents, scintillators, etc).

## COMPETITIVE ADVANTAGE

Unlike cotton, uncured **SuiteGoo is liquid**. It can seep into pores and cracks where analyte traces are embedded and inaccessible by traditional cotton swipes and swabs.

***More analyte collected = easier + faster analyses***  
(often in-field, can bypass traditional labs)

***SuiteGoo can be tuned for specific scenarios and analytes***  
(there is only ONE type of cotton)



## TECHNOLOGY STATUS AND NEXT STEP

- **SuiteGoo = 6+ different flavors**  
for different analyte classes across full CBRNE  
=> bioGoo, nanoGoo, siliGoo, raGoo, ...
- **R&D: one Goo at a time => goo'ed progress!**
- One Goo in transition to final customer (end FY22)

## TECHNOLOGY READINESS LEVEL AND IP

TRL 2-7 (depends on Goo flavor)

- Henzl, Junghans, and Lakis: "High Efficiency Environmental Sampling with Rapidly Cured Peelable Coatings",  
**US Patent No.: 10,883,901 B1** (Jan 2021)